CLAIMS

1 1. A radio controllable clock, comprising	4	4 41			
		A radio c	controllable	clock	comprising:

- an analog display having a plurality of clock hands each fastened to a uniquely associated
- 3 one of a plurality of clock hand shafts;
- a plurality of rotary gears each uniquely associated with one of said clock hand shafts, for
- 5 rotating said clock hand shafts, wherein each of said rotary gears includes a protrusion;
- a microcontroller that provides a plurality of drive command signals;
- 7 means responsive to said drive command signals, for driving said rotary gears; and
 - a reset claw operably positioned to engage said protrusion at a selected rotary position of

said rotary gear to stop the rotation of said associated rotary gear to position said associated

clock hand at a datum position.

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- 2. The radio controllable clock of claim 1, wherein said means for driving said rotary gears comprises a stepper motor.
- 1 3. The radio controllable clock of claim 1 wherein said reset claw comprises a plurality of
- 2 arms, wherein each of said arms engages an assocaited one of said protrusions to stop the
- 3 rotation of said associated rotary gear to position said clock hands at said datum position.
 - 4. The radio controllable clock of claim 3, wherein said plurality of arms comprises:
- a first arm that engages a first protrusion on a first of said plurality of rotary wheels that
- 3 is associated with said second hand;

- a second arm that engages a second protrusion on a second of said plurality of rotary
- 5 wheels that is associated with said minute hand; and
- an third arm that engages a third protrusion on a third of said plurality of rotary wheels
- 7 that is associated with said hour hand.
- 1 5. The radio controllable clock of claim 2, comprising an alarm hand shaft, an alarm hand
- 2 stepper motor and an alarm hand rotary wheel, wherein said alarm hand stepper motor drives
- 3 said alarm hand rotary wheel to rotate said alarm hand shaft.
- 1 6. The radio controllable clock of claim 1, wherein said microcontroller generates pulses
- sufficient to drive each of said plurality of rotary gears to rotate said associated clock hands at
- least one complete revolution.

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- 1 1 7. The radio controllable clock of claim 4, wherein said microcontroller generates pulses to
- 2 7 rotate said minute hand at least one and a quarter rotation, wherein said minute hand is driven by
- said stepper motor through a plurality of cooperating rotary gears comprising (i) said second of
- 4 said plurality of rotary wheels, (ii) a minute hand centre wheel-idler, (iii) a minute hand
- 5 intermediate wheel, (iv) a minute hand transmission wheel, and (v) a rotor.
- 1 8. The radio controllable clock of claim 4, wherein said microcontroller generates pulses to
- 2 rotate said second hand at least one and a quarter rotation, wherein said second hand is driven
- 3 through a plurality of cooperating rotary gears comprising (i) said first of said plurality of rotary

- wheels, (ii) a second hand centre wheel-idler, (iii) a second hand intermediate wheel, (iv) a
- 5 second hand transmission wheel, and (v) a rotor.
- 1 9. The radio controllable clock of claim 4, wherein said microcontroller generates pulses to
- 2 rotate said hour hand at least one and a quarter rotation, wherein said hour hand is driven
- 3 through a plurality of cooperating rotary gears comprising (i) said third of said plurality of rotary
- 4 wheels, (ii) an hour hand centre wheel-idler, (iii) an hour hand intermediate wheel, (iv) an hour
- 5 hand transmission wheel, and (v) a rotor.

- 10. The radio controllable clock of claim 1, comprising a flat panel display for displaying time and date information.

 The radio controllable clock of claim 1, comprising a reset knob (12) for manually
 - 11. The radio controllable clock of claim 1, comprising a reset knob (12) for manually activating said means for mechanically stopping said hand shafts (1, 2, 3, 4) or said reset claw (13), respectively.
- 1 12. The radio controllable clock of claim 1, wherein said clock is adapted to be remote controllable.

- 1 13. A radio controllable clock, comprising:
- a plurality of clock hands each fastened to a uniquely associated one of a plurality of
- 3 clock hand shafts;
- a plurality of rotary gears each uniquely associated with one of said clock hand shafts, for
- 5 rotating said clock hand shafts, wherein each of said rotary gears includes a protrusion;
- a controller that provides a plurality of drive command signals;
- motors responsive to said drive command signals, for driving said rotary gears to rotate a
- 8 selected one of said clock hands; and
- 9 means, operably positionable to engage said protrusion at a selected rotary position of
- said rotary gear, for stopping the rotation of said associated rotary gear to position said
- associated clock hand at a datum position.
- 1 14. The radio controllable clock of claim 13, wherein said motors comprise a stepper
- 2 motor.

- 1 15. The radio controllable clock of claim 13, wherein said motors comprise torque motors.
- 1 16. The radio controllable clock of claim 13, wherein said means for stopping comprises a
- 2 reset claw including a plurality of arms, wherein each of said arms engages a uniquely
- associated one of said protrusions to stop the rotation of said associated rotary gear and thus
- 4 position said associated clock hand at the datum position.